

Kinetics of interacting gravitational and electromagnetic perturbations in cosmological plasma

Zakharov A., Anikanov V.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The system of Einstein-Maxwell equations and a kinetic equation with a model collision integral for the cosmological plasma is used to study the behavior of gravitational and electromagnetic perturbations in the radiation-dominated stage of expansion of the universe. It is shown that gravitational perturbations are capable of generating electromagnetic fields in the cosmological plasma. © 1992 Plenum Publishing Corporation.

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